

**What Is Claimed Is:**

1       1. A fuse structure, comprising:  
2           an optimal position of laser spot defined above a  
3           substrate;

4           a first conductive layer formed on part of the substrate;  
5           a dielectric layer formed on the substrate and the first  
6           conductive layer;

7           a second conductive layer comprising the position of laser  
8           spot formed on part of the dielectric layer;

9           a third conductive layer formed on the part of the  
10          dielectric layer placed above the first conductive layer,  
11          wherein the third conductive layer is insulated from the first  
12          and second conductive layers; } and

13           at least one conductive plug penetrating the dielectric  
14          layer, to electrically connect the first conductive layer and  
15          the second conductive layer.

1       2. The fuse structure according to claim 1, wherein the  
2          material of the first conductive layer is tungsten.

1       3. The fuse structure according to claim 1, wherein the  
2          material of the second conductive layer is Al, AlCu alloy or  
3          poly-silicon.

1       4. The fuse structure according to claim 1, wherein the  
2          material of the third conductive layer is Al, AlCu alloy or  
3          poly-silicon.

1       5. The fuse structure according to claim 1, wherein the  
2 material of the dielectric layer is SiO<sub>2</sub>.

1       6. The fuse structure according to claim 1, wherein the  
2 material of the conductive plug is tungsten.

1       7. The fuse structure according to claim 1, further  
2 comprising a passivation layer having a window formed on the  
3 second conductive layer and the third conductive layer;

4       wherein the window exposes the second conductive layer  
5 comprising the position of laser spot, part of the third  
6 conductive layer and part of the dielectric layer.

1       8. The fuse structure according to claim 7, wherein the  
2 material of the passivation layer is PE-TEOS SiO<sub>2</sub> or SiN.

1       9. A fuse window having a plurality of fuse structures,  
2 each of the fuse structures comprising:

3       an optimal position of laser spot defined above a  
4 substrate;

5       a first conductive layer formed on part of the substrate;

6       a dielectric layer formed on the substrate and the first  
7 conductive layer;

8       a second conductive layer comprising the position of laser  
9 spot formed on part of the dielectric layer;

10       a third conductive layer formed on the part of the  
11 dielectric layer placed above the first conductive layer,

12       wherein the third conductive layer is insulated from the first  
13 and second conductive layer; and

14       at least one conductive plug penetrating the dielectric  
15      layer, for electrically connecting the first conductive layer  
16      and the second conductive layer;

17       wherein each of the fuse structures has its own position  
18      of laser spot on the second conductive layer, and the fuse  
19      structures are insulated from one another, and the laterals of  
20      the second conductive layer having the position of laser spot  
21      of any the fuse structures correspond to the third conductive  
22      layer of the adjoining fuse structure.

1       10. The fuse window according to claim 9, wherein the  
2      material of the first conductive layer is tungsten.

1       11. The fuse window according to claim 9, wherein the  
2      material of the second conductive layer is Al, AlCu alloy or  
3      poly-silicon.

1       12. The fuse window according to claim 9, wherein the  
2      material of the third conductive layer is Al, AlCu alloy or  
3      poly-silicon.

1       13. The fuse window according to claim 9, wherein the  
2      material of the dielectric layer is SiO<sub>2</sub>.

1       14. The fuse window according to claim 9, wherein the  
2      material of the conductive plug is tungsten.

1       15. A fuse structure, comprising:  
2           an optimal position of laser spot defined above a  
3           substrate;

4           a first conductive layer formed on part of the substrate;  
5           a dielectric layer formed on the substrate and the first  
6        conductive layer;

7           a second conductive layer comprising the position of laser  
8        spot formed on the dielectric layer; and

9           at least one conductive plug penetrating the dielectric  
10      layer, to electrically connect the first conductive layer and  
11      the second conductive layer.

1           16. The fuse structure according to claim 15, wherein the  
2        material of the first conductive layer is tungsten.

1           17. The fuse structure according to claim 15, wherein the  
2        material of the second conductive layer is Al, AlCu alloy or  
3        poly-silicon.

1           18. The fuse structure according to claim 15, wherein the  
2        material of the dielectric layer is SiO<sub>2</sub>.

1           19. The fuse structure according to claim 15, wherein the  
2        material of the conductive plug is tungsten.

1           20. The fuse structure according to claim 15, further  
2        comprising a passivation layer having a window formed on the  
3        second conductive layer;

4           wherein the window exposes the second conductive layer  
5        comprising the position of laser spot.

1           21. The fuse structure according to claim 20, wherein the  
2        material of the passivation layer is PE-TEOS SiO<sub>2</sub> or SiN.

1           22. A fuse window having a plurality of fuse structures,  
2     Each fuse structure comprising:

3               an optimal position of laser spot defined above a  
4     substrate;

5               a first conductive layer formed on part of the substrate;

6               a dielectric layer formed on the substrate and the first  
7     conductive layer;

8               a second conductive layer comprising the position of laser  
9     spot formed on part of the dielectric layer; and

10              at least one conductive plug penetrating the dielectric  
11     layer, to electrically connect the first conductive layer and  
12     the second conductive layer;

13              wherein each fuse structure has its own the position of  
14     laser spot on the second conductive layer, and the fuse  
15     structures are insulated from one another, and the laterals of  
16     the portion of the second conductive layer having the position  
17     of laser spot of any the fuse structure correspond to the portion  
18     of the second conductive layer having no position of laser spot  
19     of the adjoining fuse structure.

1           23. The fuse window according to claim 22, wherein the  
2     material of the first conductive layer is tungsten.

1           24. The fuse window according to claim 22, wherein the  
2     material of the second conductive layer is Al, AlCu alloy or  
3     poly-silicon.

1           25. The fuse window according to claim 22, wherein the  
2     material of the dielectric layer is SiO<sub>2</sub>.

1           26. The fuse window according to claim 22, wherein the  
2 material of the conductive plug is tungsten.